

Claims

1. A device (1) for ejecting a liquid or pasty product, comprising a body (2), a part intended to contain the product and equipped with an orifice for ejecting the product, a drive cylinder (3; 3'; 3'') equipped with teeth (10), moving in a bore (23) passing through the body and causing the volume of the part intended to contain the product to vary and a mechanism for displacing the drive cylinder attached to the body, comprising an articulated lever (4) acting on the teeth of the drive cylinder through an articulated pawl (16) articulated to the lever (4) and returned to a position of contact with the drive cylinder and a nonreturn pawl (18) returned to a position of contact with the drive cylinder, wherein the lever (4) is connected to the body by means of a joint (14, 15) that can be dislocated.
2. The ejection device (1) as claimed in any one of the preceding claims, wherein the drive cylinder (3; 3'; 3'') has one end (22) shaped to engage in a slot (20) formed on the nonreturn pawl (18) when the latter is engaged the wrong way round in the body (2).
3. The ejection device (1) as claimed in one of the preceding claims, wherein the drive cylinder (3'; 3'') has a sector with no teeth along its entire length and is able to rotate in the bore (23).
4. The ejection device (1) as claimed in one of the preceding claims, wherein the profile of the teeth (10) between two consecutive crests comprises two straight segments (11, 13) connected by a radius (12).
5. The ejection device (1) as claimed in any one of claims 1 to 4, and which comprises, in the body (2), a

liner (25) able to rotate with respect to the body.

6. The ejection device (1) as claimed in claim 5,  
wherein the liner comprises an elastically deformable  
5 part (27) constituting the nonreturn pawl.

7. The ejection device (1) as claimed in claim 5 or  
6, wherein the liner comprises at least one stud  
designed to act on at least one pawl and to release the  
10 drive cylinder as the liner turns.

8. The ejection device (1) as claimed in any one of  
claims 1 to 4, and which comprises, in the body (2), a  
liner (25) capable of translational movement with  
15 respect to the body (2) and wherein the liner comprises  
at least one stud designed to act on at least one pawl  
and release the drive cylinder as the liner effects a  
translational movement.

20 9. The ejection device (1) as claimed in any one of  
claims 5 to 8, wherein the liner comprises a means of  
connection to the part intended to contain the product.

25 10. The ejection device (1) as claimed in any one of  
the preceding claims, wherein the body (2) and/or the  
lever (4) are made of a material that can be molded.